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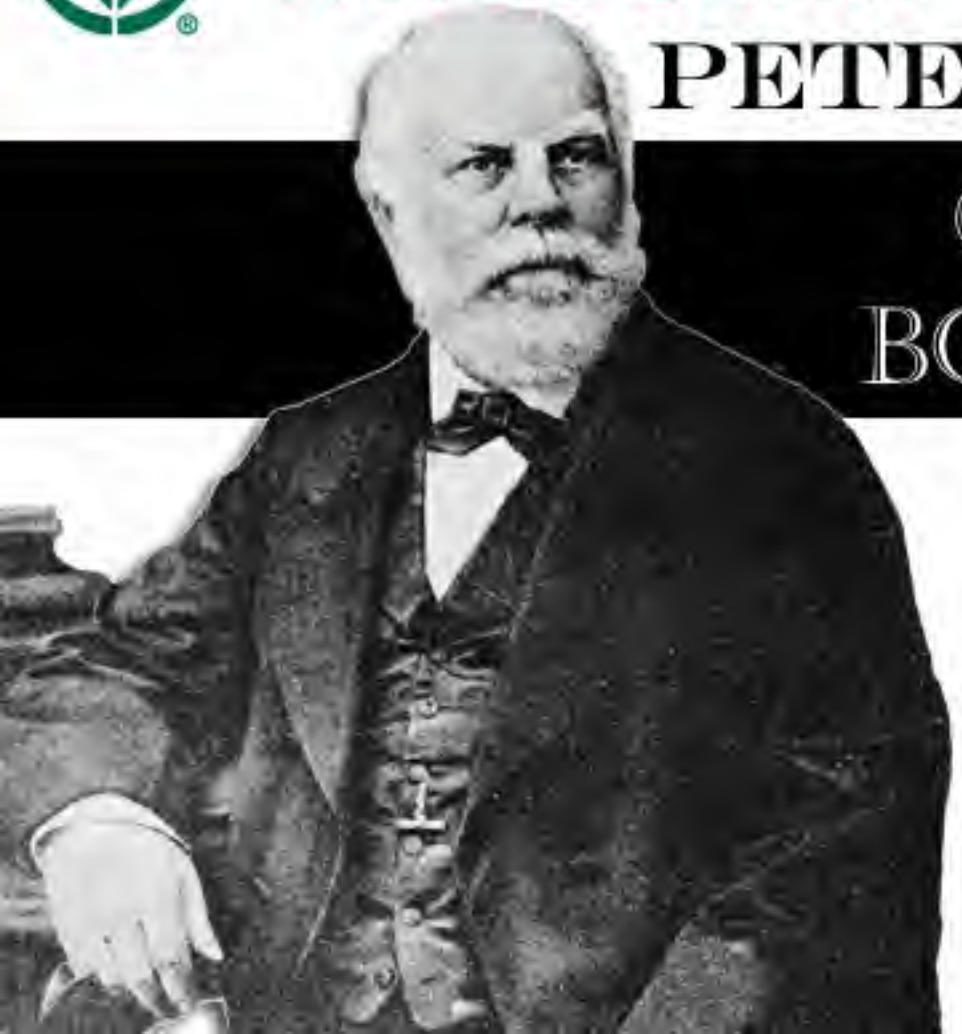

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Juncus

Aug 12 1865

St Louis Aug 1841

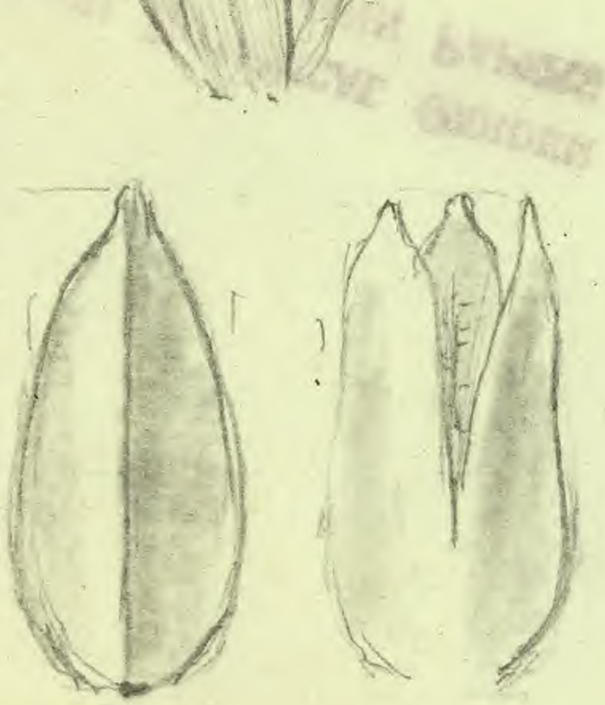
10–25 flowers in each head

stamens and stigma about as long as ovary style almost none

×60

strongly reticulate

inner sepals equal or scarcely shorter than outer ones



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Aug 12 1865

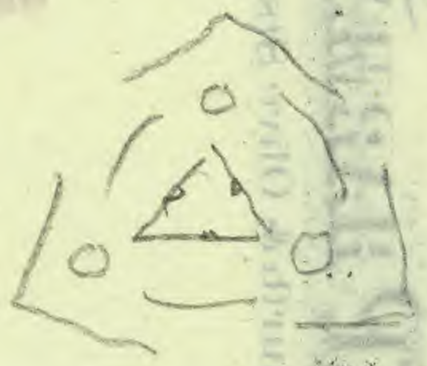
Juncus

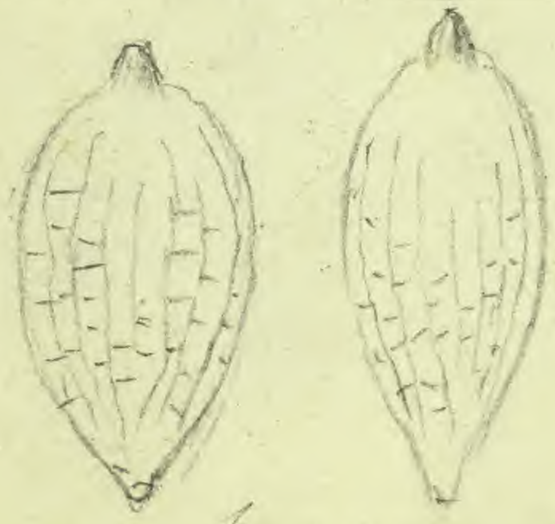
Mississippi, E. Hilgard

hands 10-20 flowered

x60

x10





April 5 1866

stipulate

cross undulate

Juncus spicatus

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Sept 30 1865

Iuncus

Berlandier 1571 ÷ Hb. Gray

between Guadalupe & Colorado, Texas

April 1828

Label wrong — plant

Coll. in summer & fall

x 60

x 10

heads 25–30 ft

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Oct 6 1865

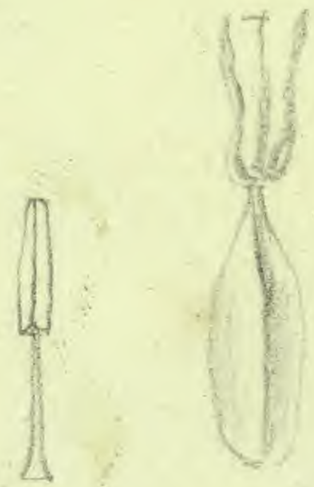
Imons

seed 3. April 5. 1866 not non Scirpi, ill 5. Aug 6 & 16 Jany
Silv Columb. Dune 1864

"heads 8-20-30 flowered"
Aug

x60

seeds unripe



x150

seeds pitted in rows, more than striculate

under ripe seeds of S. debilis mixed

because unripe

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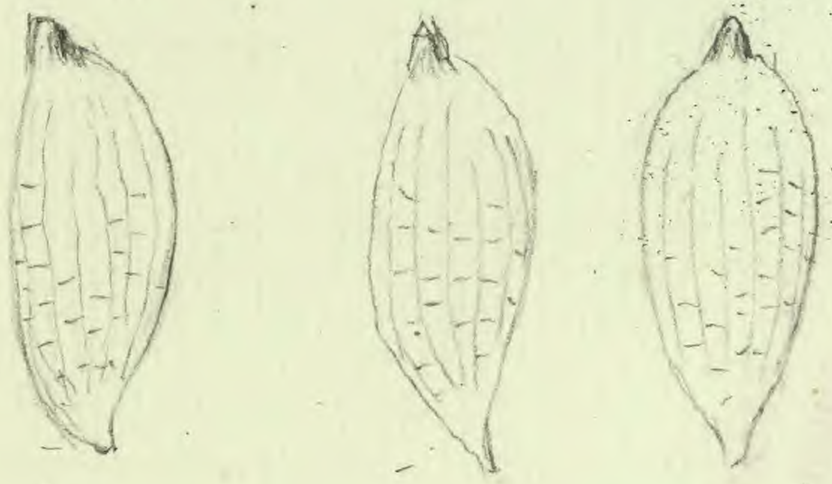
Seeds

April 5 – 1866

"I. Elliottii" Bebb = 145 Jrny see Jy. Octob. 1865

ripe seeds



abt 6 = 7 mils

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M S Bebb remarks — a letter to Prof Gray (? Peters)

I wonder?
probably aromaticus Ell, but scarcely Elliottii Chap.
perhaps J. patens Kunth.

Erect 1½ - 2 feet high, terete, leaves terete. panicle decompound, sepals subulate lanceolate equalling the ovate petals sharply angled shining chestnut colored capsule stamens 3 — seeds tailless, pointed — heads 8 - 20 - 30 fl. root fibrous.

Massachusetts, Ditto New York (Clinton) Pennsylv. (Porter) Ohio Columbus (Bebb) Illinois (mason Co, Bebb Ridgeway, Vasey, Athens, Hall)

One of the earliest species — flowers, never washington ± May — ripe about middle of June — "by the first of July the whole plant gone by (1864)"

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PHARMACEUTISTS,

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Dicranum elegans Hook? Oct 1st 1865

sub nom. paradoxum S. Carolina Curtis

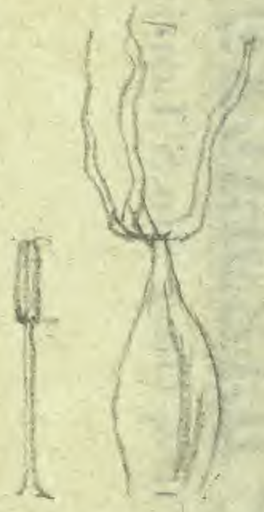
= H. elegans

×60

×2

young

old



lower part of head with open capsules, and shed upper part just in flower, or not yet — second growth in fall on same head!

×150

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ering.

Dimensions.—Length, 0.20 of an inch; width, 0.18.

The *Elæacrinus Kirkwoodensis* is nearly allied to *E.* (*Pentremites*) *melo*, from which it is distinguished by its much smaller size and less deeply excavated base. It also occupies a higher geological position.

Occurs in the St. Louis Limestone (Carboniferous) on the Pacific railroad near Kirkwood, St. Louis county, Missouri.

St. Louis Group
Carboniferous
Pattersons
Museum Numb. Ep. 3.340
Locality Unknown
402-422

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cumstances prevented me from obtaining more than a few crystals, which are now deposited in the collection of the Smithsonian Institute; a few others are also in the hands of members of the party. We were travelling at the time by forced night marches with nearly worn out animals, seeking to gain a spring of water in a distant range of mountains. This desert was then entirely unexplored. I have but little doubt that more interesting materials are to be found at the same point.

The mountains of the former Territory of Utah promise a rich yield to the mineralogist. We know already of gold and silver ores in the east, west and south part of that district; of copper and lead ores in the south, and I have discovered the latter also in the centre of it; of specular iron ores and native sulphur in the Rocky Mountains and near Little Salt Lake; of rock salt in the mountains south-east of Utah Lake; of native alum near Salt Lake; of various other salts in the deserts; and of silicates, composing the granites, porphyries, diorites, trachytes, and lavas, nearly over the whole area.

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I. pallescens
var fraterna

April 20. 1866

Delaware, A. Commons.

heads & flowers larger than usual

sepala exteriora
breviora

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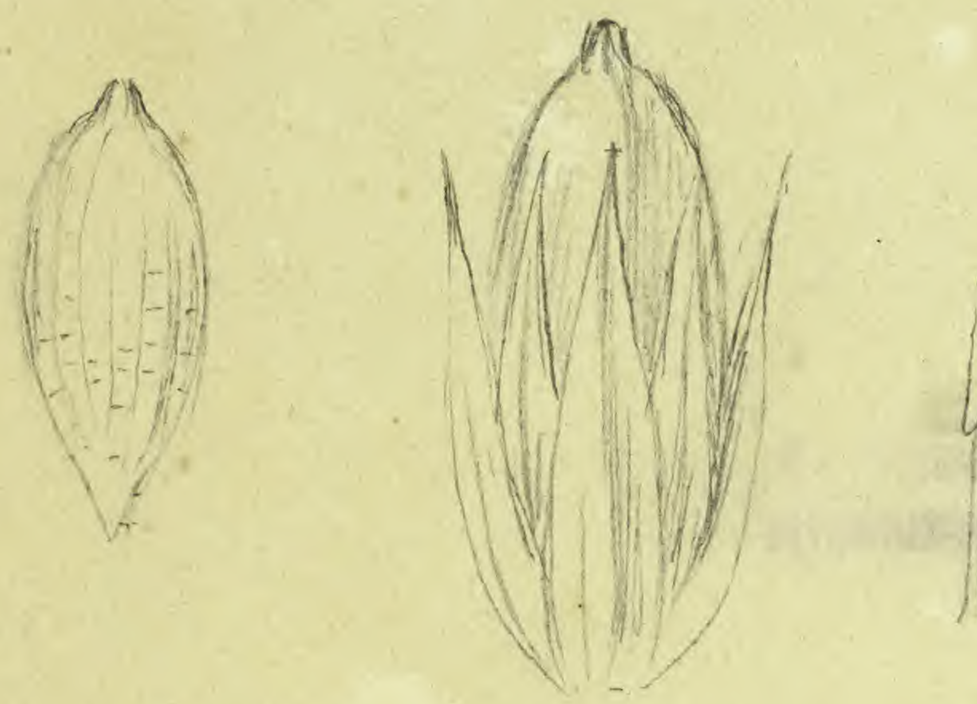
Juncus subtessus

Dec 9 1865

capsula sepala excedente ad J. debilem spectans!

New Jersey ex Herb Am. Philad.



some capsules exserted, some others (on same specimen) as long as sepals,

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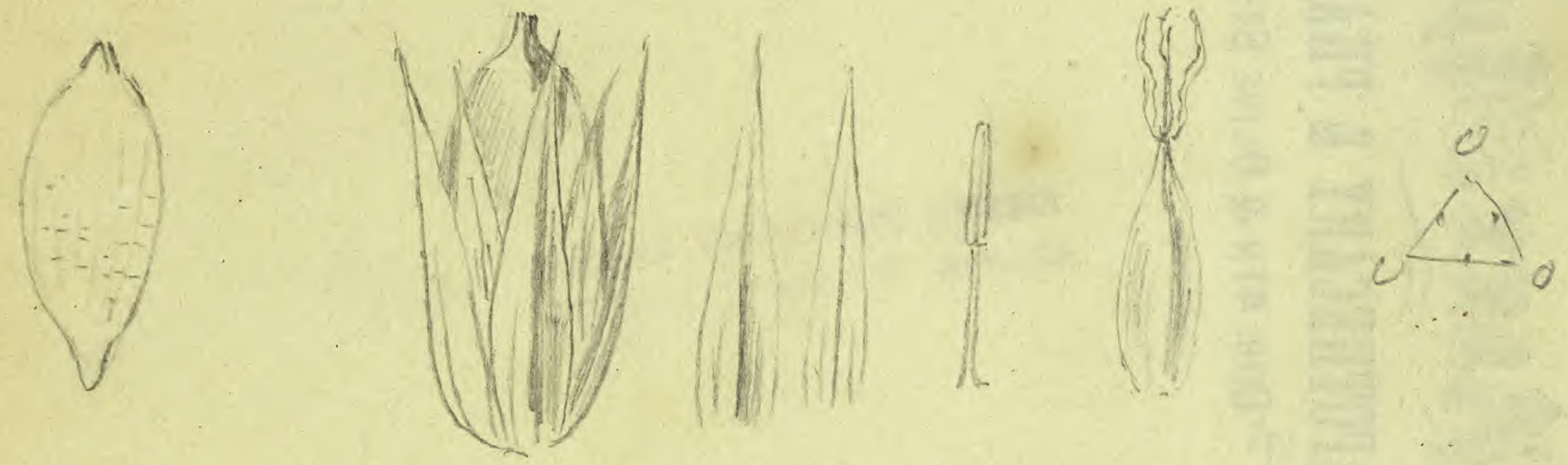
Juncus patens Dec 9 1865
sub nom J. subbifloris Alter Neal
New Jersey ⁄ Mr. A. Phila.



sepalis latioribus
capsa brevioribus
sepalo exteriori interiorem vix superante basi rotundata
— interiora basi 1 nervia
basi 3 nervia

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cm
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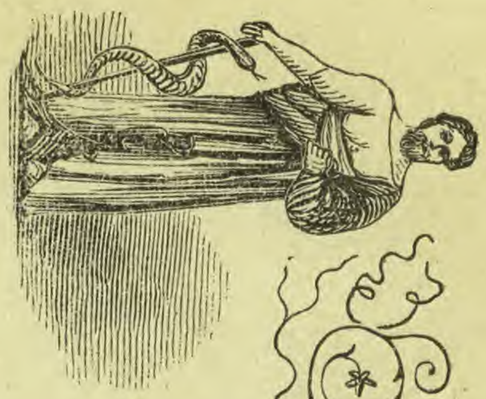

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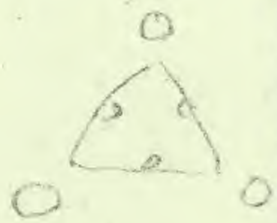
Juncus fasciculatus March 31 1866

v. 6 non J. acuminatus H.W.
Aiken S.C. Ravenel
mi 1866

6-7 nlv



sep ent 5-7 nerv
int 3 nerv

ATHENAEUM
PROVIDENCE R.I.

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Juncus subterminus

	Mr. Rhoads	Gray	Engelm.
Pennsylvania	Schweinitz		
Philadelphia	Smith	Smith	Smith
	Leidy	Townsend	Townsend
	Darlington	Porter	Porter
	Townsend		Leidy
New Jersey	Leidy		Smith
	Griswold		
Kentucky	Peters		
Washington	Bebb	Bebb	Bebb
Texas	Berlandier	Berlandier 2556. 1571	1571 2556
			Wright
Louisiana		Hale	(Hale)
S. Carolina		Curtis	(Curtis)
		Ravenel?	(Ravenel)
	Beardstown		Geyer
Alabama	Mead & Co	Hall	Hall
	Salem	Bebb	Bebb
St Louis	Hazard		Vasey
			England
Michigan		?	
Maryland.	Mitchell	Sitgreaves	Sitgreaves
Massachusetts			Robbins
			(Boott)
	Little		Little
Mississippi			Hilgard
Florida	Chapman		(Chapman)
N. Carolina	Curtis		
R. Mex	Wright 1925		
Georgia	Baldwin		
Delaware			Commons

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Aurx. Lerch

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Kunth Enum III. 341

Lucuma potentosa a. sp.

— — sepalis lanceolatis acutis - subulatis

Dorso viridulis

capsulam oblongam triangularem

acutam apiculatam - uniloculareem

seminibus

pendulis Brevibus

Boston, Scott coll.

" An a. P. pseudopo sat distincta ? "

Kunth.

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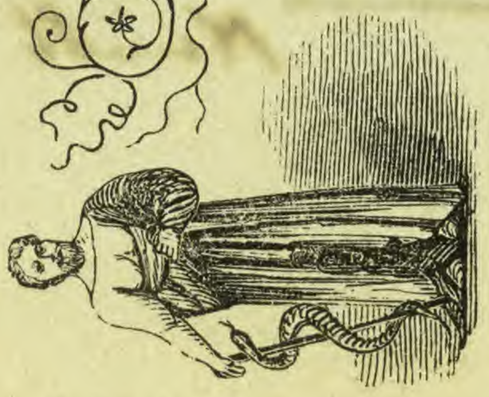

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Juncus fraternus Kunth

Syn. J. Bondii Wood Bot (1861) p. 724

Panicle diffuse decompound

Heads globular 5–12 flowered chestnut-

Sepals equal as long as the capsule

Capsule triangular ovate abruptly pointed

Stamens 3.

Seeds oval, acute at each end.

EDWIN R. SWANN & CO.

Apothecaries & Pharmaceutists,

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Nov 16 1865

Juncus fasciculatus Kunth ! Enum III. 340

" Boston, Boott mis 1831 " ÷ HG Kunth

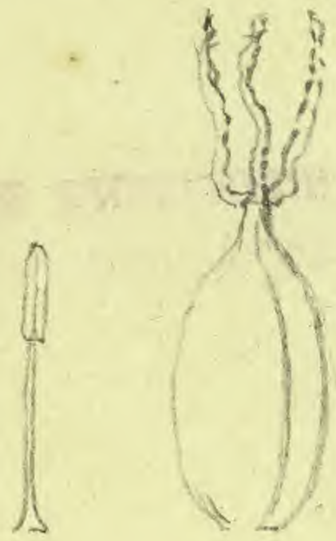
capitula 2 6–7 flora

5–6 mm lata 4 mm longa

subglobosa

x 60

very young



capsule unripe,
not full grown

MUSEUM OF COMPARATIVE ZOOLOGY
Museum Building Cambridge

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Syn. paradoxus Mey
Mey. Syn. Fl. 30

anthis capitulis paucifloris
pro anthiis laciniis lanceolato-
acuminatis
exterioribus longioribus
capsulam acutam lanceolatam
subæqualibus
non æquantibus
staminibus 3 pro anthiis
vix brevioribus
antheris minutis

Why not fraternus ?
or acct of minute anthers
but Boott & other sp. of fraternus
have also short anthers, some have scarcely exserted

Syn. pallescens Dan
Mey. Syn. Fl. 31

capitulis paucifloris
superdecompositis
lanceolatis acuminatis
subæqualibus
[pauciseriatis]
(acutis
æquantibus ?)
3 dimidium anthis
vix superantibus

Why not debilis ?
or rather few flowered
fraternus ?

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